



SEQUENCE LISTING

<110> Jensenius, Jens Chr.
Thiel, Steffen

<120> MASP-2 COMPLEMENT-FIXING ENZYME, AND
USES FOR IT

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<141> 2001-06-04

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<151> 1998-04-02

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<151> 1997-04-03

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<212> PRT

<213> Homo sapiens

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<212> PRT

<213> Homo sapiens

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 Gly Phe Glu Ala Phe Tyr Ala Ala Glu Asp Ile Asp Glu Cys Gln Val
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 Ala Pro Gly Glu Ala Pro Thr Cys Asp His His Cys His Asn His Leu
 145 150 155 160
 Gly Gly Phe Tyr Cys Ser Cys Arg Ala Gly Tyr Val Leu His Arg Asn
 165 170 175
 Lys Arg Thr Cys Ser Ala Leu Cys Ser Gly Gln Val Phe Thr Gln Arg
 180 185 190
 Ser Gly Glu Leu Ser Ser Pro Glu Tyr Pro Arg Pro Tyr Pro Lys Leu
 195 200 205
 Ser Ser Cys Thr Tyr Ser Ile Ser Leu Glu Glu Gly Phe Ser Val Ile
 210 215 220
 Leu Asp Phe Val Glu Ser Phe Asp Val Glu Thr His Pro Glu Thr Leu
 225 230 235 240
 Cys Pro Tyr Asp Phe Leu Lys Ile Gln Thr Asp Arg Glu Glu His Gly
 245 250 255
 Pro Phe Cys Gly Lys Thr Leu Pro His Arg Ile Glu Thr Lys Ser Asn
 260 265 270
 Thr Val Thr Ile Thr Phe Val Thr Asp Glu Ser Gly Asp His Thr Gly
 275 280 285
 Trp Lys Ile His Tyr Thr Ser Thr Ala Gln Pro Cys Pro Tyr Pro Met
 290 295 300
 Ala Pro Pro Asn Gly His Val Ser Pro Val Gln Ala Lys Tyr Ile Leu
 305 310 315 320
 Lys Asp Ser Phe Ser Ile Phe Cys Glu Thr Gly Tyr Glu Leu Leu Gln
 325 330 335
 Gly His Leu Pro Leu Lys Ser Phe Thr Ala Val Cys Gln Lys Asp Gly
 340 345 350
 Ser Trp Asp Arg Pro Met Pro Ala Cys Ser Ile Val Asp Cys Gly Pro
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 Pro Asp Asp Leu Pro Ser Gly Arg Val Glu Tyr Ile Thr Gly Pro Gly
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 Val Thr Thr Tyr Lys Ala Val Ile Gln Tyr Ser Cys Glu Glu Thr Phe
 385 390 395 400
 Tyr Thr Met Lys Val Asn Asp Gly Lys Tyr Val Cys Glu Ala Asp Gly
 405 410 415
 Phe Trp Thr Ser Lys Gly Glu Lys Ser Leu Pro Val Cys Glu Pro
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 Val Cys Gly Leu Ser Ala Arg Thr Thr Gly Gly Arg Ile Tyr Gly Gly
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 Gln Lys Ala Lys Pro Gly Asp Phe Pro Trp Gln Val Leu Ile Leu Gly
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 Gly Thr Thr Ala Ala Gly Ala Leu Leu Tyr Asp Asn Trp Val Leu Thr
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 485 490 495
 Ile Arg Met Gly Thr Leu Lys Arg Leu Ser Pro His Tyr Thr Gln Ala
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 Trp Ser Glu Ala Val Phe Ile His Glu Gly Tyr Thr His Asp Ala Gly
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Arg Asn Leu Met Tyr Val Asp Ile Pro Ile Val Asp His Gln Lys Cys	
585	590 595
act gct gca tat gaa aag cca ccc tat cca agg gga agt gta act gct	1878
Thr Ala Ala Tyr Glu Lys Pro Pro Tyr Pro Arg Gly Ser Val Thr Ala	
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aac atg ctt tgt gct ggc tta gaa agt ggg ggc aag gac agc tgc aga	1926
Asn Met Leu Cys Ala Gly Leu Glu Ser Gly Gly Lys Asp Ser Cys Arg	
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Gly Asp Ser Gly Gly Ala Leu Val Phe Leu Asp Ser Glu Thr Glu Arg	
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gca ggt cag tat gga gtc tac aca aaa gtt att aac tat att ccc tgg	2070
Ala Gly Gln Tyr Gly Val Tyr Thr Lys Val Ile Asn Tyr Ile Pro Trp	
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Ile Glu Asn Ile Ile Ser Asp Phe	
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Val	Pro	Asp	Gly	Phe	Arg	Ile	Lys	Leu	Tyr	Phe	Met	His	Phe	Asn	Leu
Glu	Ser	Ser	Tyr	Leu	Cys	Glu	Tyr	Asp	Tyr	Val	Lys	Val	Glu	Thr	Glu
Asp	Gln	Val	Leu	Ala	Thr	Phe	Cys	Gly	Arg	Glu	Thr	Thr	Asp	Thr	Glu
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Gln	Thr	Pro	Gly	Gln	Glu	Val	Val	Leu	Ser	Pro	Gly	Ser	Phe	Met	Ser
Ile	Thr	Phe	Arg	Ser	Asp	Phe	Ser	Asn	Glu	Glu	Arg	Phe	Thr	Gly	Phe
Asp	Ala	His	Tyr	Met	Ala	Val	Asp	Val	Asp	Glu	Cys	Lys	Glu	Arg	Glu
Asp	Glu	Glu	Leu	Ser	Cys	Asp	His	Tyr	Cys	His	Asn	Tyr	Ile	Gly	Gly
Tyr	Tyr	Cys	Ser	Cys	Arg	Phe	Gly	Tyr	Ile	Leu	His	Thr	Asp	Asn	Arg
145					150					155					160
Thr	Cys	Arg	Val	Glu	Cys	Ser	Asp	Asn	Leu	Phe	Thr	Gln	Arg	Thr	Gly
Val	Ile	Thr	Ser	Pro	Asp	Phe	Pro	Asn	Pro	Tyr	Pro	Lys	Ser	Ser	Glu
Cys	Leu	Tyr	Thr	Ile	Glu	Leu	Glu	Glu	Gly	Phe	Met	Val	Asn	Leu	Gln
Phe	Glu	Asp	Ile	Phe	Asp	Ile	Glu	Asp	His	Pro	Glu	Val	Pro	Cys	Pro
Tyr	Asp	Tyr	Ile	Lys	Ile	Lys	Val	Gly	Pro	Lys	Val	Leu	Gly	Pro	Phe
225					230					235					240
Cys	Gly	Glu	Lys	Ala	Pro	Glu	Pro	Ile	Ser	Thr	Gln	Ser	His	Ser	Val
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Leu	Ser	Tyr	Arg	Ala	Ala	Gly	Asn	Glu	Pro	Glu	Leu	Gln	Pro	Pro	Val
His	Gly	Lys	Ile	Glu	Pro	Ser	Gln	Ala	Lys	Tyr	Phe	Phe	Lys	Asp	Gln
Val	Leu	Val	Ser	Cys	Asp	Thr	Gly	Tyr	Lys	Val	Leu	Lys	Asp	Asn	Val
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Glu	Met	Asp	Thr	Phe	Gln	Ile	Glu	Cys	Leu	Lys	Asp	Gly	Thr	Trp	Ser
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Leu	Glu	His	Gly	Leu	Ile	Thr	Phe	Ser	Thr	Arg	Asn	Asn	Leu	Thr	Thr
Tyr	Lys	Ser	Glu	Ile	Lys	Tyr	Ser	Cys	Gln	Glu	Pro	Tyr	Tyr	Lys	Met
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Met	Asn	Lys	Val	Leu	Gly	Arg	Ser	Leu	Pro	Thr	Cys	Leu	Pro	Val	Cys
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 Arg Pro Ala Gln Lys Gly Thr Thr Pro Trp Ile Ala Met Leu Ser His
 435 440 445
 Leu Asn Gly Gln Pro Phe Cys Gly Gly Ser Leu Leu Gly Ser Ser Trp
 450 455 460
 Ile Val Thr Ala Ala His Cys Leu His Gln Ser Leu Asp Pro Lys Asp
 465 470 475 480
 Pro Thr Leu Arg Asp Ser Asp Leu Leu Ser Pro Ser Asp Phe Lys Ile
 485 490 495
 Ile Leu Gly Lys His Trp Arg Leu Arg Ser Asp Glu Asn Glu Gln His
 500 505 510
 Leu Gly Val Lys His Thr Thr Leu His Pro Lys Tyr Asp Pro Asn Thr
 515 520 525
 Phe Glu Asn Asp Val Ala Leu Val Glu Leu Leu Glu Ser Pro Val Leu
 530 535 540
 Asn Ala Phe Val Met Pro Ile Cys Leu Pro Glu Gly Pro Gln Gln Glu
 545 550 555 560
 Gly Ala Met Val Ile Val Ser Gly Trp Gly Lys Gln Phe Leu Gln Arg
 565 570 575
 Phe Pro Glu Thr Leu Met Glu Ile Glu Ile Pro Ile Val Asp His Ser
 580 585 590
 Thr Cys Gln Lys Ala Tyr Ala Pro Leu Lys Lys Lys Val Thr Arg Asp
 595 600 605
 Met Ile Cys Ala Gly Glu Lys Glu Gly Gly Lys Asp Ala Cys Ser Gly
 610 615 620
 Asp Ser Gly Gly Pro Met Val Thr Leu Asn Arg Glu Arg Gly Gln Trp
 625 630 635 640
 Tyr Leu Val Gly Thr Val Ser Trp Gly Asp Asp Cys Gly Lys Lys Asp
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 35 40 45
 Glu Pro Ser Glu Gly Cys Phe Tyr Asp Tyr Val Lys Ile Ser Ala Asp
 50 55 60
 Lys Lys Ser Leu Gly Arg Phe Cys Gly Gln Leu Gly Ser Pro Leu Gly
 65 70 75 80
 Asn Pro Pro Gly Lys Lys Glu Phe Met Ser Gln Gly Asn Lys Met Leu
 85 90 95
 Leu Thr Phe His Thr Asp Phe Ser Asn Glu Glu Asn Gly Thr Ile Met
 100 105 110
 Phe Tyr Lys Gly Phe Leu Ala Tyr Tyr Gln Ala Val Asp Leu Asp Glu
 115 120 125

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Gln	His	Leu	Cys	His	Asn	Tyr	Val	Gly	Gly	Tyr	Phe	Cys	Ser	Cys	Arg
145					150					155					160
Pro	Gly	Tyr	Glu	Leu	Gln	Glu	Asp	Arg	His	Ser	Cys	Gln	Ala	Glu	Cys
				165						170					175
Ser	Ser	Glu	Leu	Tyr	Thr	Glu	Ala	Ser	Gly	Tyr	Ile	Ser	Ser	Leu	Glu
				180					185					190	
Tyr	Pro	Arg	Ser	Tyr	Pro	Pro	Asp	Leu	Arg	Cys	Asn	Tyr	Ser	Ile	Arg
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Val	Glu	Arg	Gly	Leu	Thr	Leu	His	Leu	Lys	Phe	Leu	Glu	Pro	Phe	Asp
	210					215					220				
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225					230						235				240
Tyr	Ala	Asn	Gly	Lys	Asn	Ile	Gly	Glu	Phe	Cys	Gly	Lys	Gln	Arg	Pro
				245					250					255	
Pro	Asp	Leu	Asp	Thr	Ser	Ser	Asn	Ala	Val	Asp	Leu	Leu	Phe	Phe	Thr
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Asp	Glu	Ser	Gly	Asp	Ser	Arg	Gly	Trp	Lys	Leu	Arg	Tyr	Thr	Thr	Glu
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Ile	Ile	Lys	Cys	Pro	Gln	Pro	Lys	Thr	Leu	Asp	Glu	Phe	Thr	Ile	Ile
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Gln	Asn	Leu	Gln	Pro	Gln	Tyr	Gln	Phe	Arg	Asp	Tyr	Phe	Ile	Ala	Thr
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Cys	Lys	Gln	Gly	Tyr	Gln	Leu	Ile	Glu	Gly	Asn	Gln	Val	Leu	His	Ser
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Phe	Thr	Ala	Val	Cys	Gln	Asp	Asp	Gly	Thr	Trp	His	Arg	Ala	Met	Pro
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Asp	Phe	Arg	Tyr	Thr	Thr	Thr	Met	Gly	Val	Asn	Thr	Tyr	Lys	Ala	Arg
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Ile	Trp	Lys	Asn	Glu	Gln	Lys	Gly	Glu	Lys	Ile	Pro	Arg	Cys	Leu	Pro
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Val	Cys	Gly	Lys	Pro	Val	Asn	Pro	Val	Glu	Gln	Arg	Gln	Arg	Ile	Ile
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Leu	Thr	Ala	Ala	His	Thr	Leu	Tyr	Pro	Lys	Glu	His	Glu	Ala	Gln	Ser
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Asn	Ala	Ser	Leu	Asp	Val	Phe	Leu	Gly	His	Thr	Asn	Val	Glu	Glu	Leu
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Met	Lys	Leu	Gly	Asn	His	Pro	Ile	Arg	Arg	Val	Ser	Val	His	Pro	Asp
	515						520					525			
Tyr	Arg	Gln	Asp	Glu	Ser	Tyr	Asn	Phe	Glu	Gly	Asp	Ile	Ala	Leu	Leu
	530					535					540				
Glu	Leu	Glu	Asn	Ser	Val	Thr	Leu	Gly	Pro	Asn	Leu	Leu	Pro	Ile	Cys
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Leu	Pro	Asp	Asn	Asp	Thr	Phe	Tyr	Asp	Leu	Gly	Leu	Met	Gly	Tyr	Val
				565					570					575	
Ser	Gly	Phe	Gly	Val	Met	Glu	Glu	Lys	Ile	Ala	His	Asp	Leu	Arg	Phe

Val	Arg	Leu	Pro	Val	Ala	Asn	Pro	Gln	Ala	Cys	Glu	Asn	Trp	Leu	Arg
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<212> PRT

<213> Homo sapiens

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		20					25					30			
Tyr	Gly	Ile	His	Leu	Tyr	Phe	Thr	His	Leu	Asp	Ile	Glu	Leu	Ser	Glu
		35				40					45				
Asn	Cys	Ala	Tyr	Asp	Ser	Val	Gln	Ile	Ile	Ser	Gly	Asp	Thr	Glu	Glu
	50				55					60					
Gly	Arg	Leu	Cys	Gly	Gln	Arg	Ser	Ser	Asn	Asn	Pro	His	Ser	Pro	Ile
65				70					75					80	
Val	Glu	Glu	Phe	Gln	Val	Pro	Tyr	Asn	Lys	Leu	Gln	Val	Ile	Phe	Lys
			85					90					95		
Ser	Asp	Phe	Ser	Asn	Glu	Glu	Arg	Phe	Thr	Gly	Phe	Ala	Ala	Tyr	Tyr
		100					105					110			
Val	Ala	Thr	Asp	Ile	Asn	Glu	Cys	Thr	Asp	Phe	Val	Asp	Val	Pro	Cys
		115					120					125			
Ser	His	Phe	Cys	Asn	Asn	Phe	Ile	Gly	Gly	Tyr	Phe	Cys	Ser	Cys	Pro
	130					135				140					
Pro	Glu	Tyr	Phe	Leu	His	Asp	Asp	Met	Lys	Asn	Cys	Gly	Val	Asn	Cys
145				150					155					160	
Ser	Gly	Asp	Val	Phe	Thr	Ala	Leu	Ile	Gly	Glu	Ile	Ala	Ser	Pro	Asn
			165					170					175		
Tyr	Pro	Lys	Pro	Tyr	Pro	Glu	Asn	Ser	Arg	Cys	Glu	Tyr	Gln	Ile	Arg
		180					185						190		
Leu	Glu	Lys	Gly	Phe	Gln	Val	Val	Thr	Leu	Arg	Arg	Glu	Asp	Phe	
		195				200					205				
Asp	Val	Glu	Ala	Ala	Asp	Ser	Ala	Gly	Asn	Cys	Leu	Asp	Ser	Leu	Val
	210					215					220				
Phe	Val	Ala	Gly	Asp	Arg	Gln	Phe	Gly	Pro	Tyr	Cys	Gly	His	Gly	Phe
225				230					235					240	
Pro	Gly	Pro	Leu	Asn	Ile	Glu	Thr	Lys	Ser	Asn	Ala	Leu	Asp	Ile	Ile
			245					250					255		
Phe	Gln	Thr	Asp	Leu	Thr	Gly	Gln	Lys	Lys	Gly	Trp	Lys	Leu	Arg	Tyr
		260						265					270		
His	Gly	Asp	Pro	Met	Pro	Cys	Pro	Lys	Glu	Asp	Thr	Pro	Asn	Ser	Val
		275					280					285			
Trp	Glu	Pro	Ala	Lys	Ala	Lys	Tyr	Val	Phe	Arg	Asp	Val	Val	Gln	Ile

290		295		300
Thr Cys Leu Asp Gly	Phe Glu Val Val Glu Gly	Arg Val Gly Ala Thr		
305	310	315	320	
Ser Phe Tyr Ser Thr	Cys Gln Ser Asn Gly Lys Trp Ser Asn Ser Lys			
	325	330	335	
Leu Lys Cys Gln Pro Val	Asp Cys Gly Ile Pro Glu Ser Ile Glu Asn			
	340	345	350	
Gly Lys Val Glu Asp Pro	Glu Ser Thr Leu Phe Gly Ser Val Ile Arg			
	355	360	365	
Tyr Thr Cys Glu Glu Pro	Tyr Tyr Tyr Met Glu Asn Gly Gly Gly Gly			
	370	375	380	
Glu Tyr His Cys Ala Gly	Asn Gly Ser Trp Val Asn Glu Val Leu Gly			
385	390	395	400	
Pro Glu Leu Pro Lys	Cys Val Pro Val Cys Gly Val Pro Arg Glu Pro			
	405	410	415	
Phe Glu Glu Lys Gln Arg	Ile Ile Gly Ser Asp Ala Asp Ile Lys			
	420	425	430	
Asn Phe Pro Trp Gln Val	Phe Phe Asp Asn Pro Trp Ala Gly Gly Ala			
	435	440	445	
Leu Ile Asn Glu Tyr Trp	Val Leu Thr Ala Ala His Val Val Glu Gly			
	450	455	460	
Asn Arg Glu Pro Thr Met	Tyr Val Gly Ser Thr Ser Val Gln Thr Ser			
465	470	475	480	
Arg Leu Ala Lys Ser	Lys Met Leu Thr Pro Glu His Val Phe Ile His			
	485	490	495	
Pro Gly Trp Lys Leu Leu	Glu Val Pro Glu Gly Arg Thr Asn Phe Asp			
	500	505	510	
Asn Asp Ile Ala Leu Val	Arg Leu Lys Asp Pro Val Lys Met Gly Pro			
	515	520	525	
Thr Val Ser Pro Ile Cys	Leu Pro Gly Thr Ser Ser Asp Tyr Asn Leu			
	530	535	540	
Met Asp Gly Asp Leu Gly	Leu Ile Ser Gly Trp Gly Arg Thr Glu Lys			
545	550	555	560	
Arg Asp Arg Ala Val	Arg Leu Lys Ala Ala Arg Leu Pro Val Ala Pro			
	565	570	575	
Leu Arg Lys Cys Lys Glu	Val Lys Val Glu Lys Pro Thr Ala Asp Ala			
	580	585	590	
Glu Ala Tyr Val Phe Thr	Pro Asn Met Ile Cys Ala Gly Gly Glu Lys			
	595	600	605	
Gly Met Asp Ser Cys Lys	Gly Asp Ser Gly Gly Ala Phe Ala Val Gln			
	610	615	620	
Asp Pro Asn Asp Lys Thr	Lys Phe Tyr Ala Ala Gly Leu Val Ser Trp			
625	630	635	640	
Gly Pro Gln Cys Gly Thr	Tyr Gly Leu Tyr Thr Arg Val Lys Asn Tyr			
	645	650	655	
Val Asp Trp Ile Met Lys	Thr Met Gln Glu Asn Ser Thr Pro Arg Glu			
	660	665	670	

Asp